



2-23-2006

PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project of 1999, persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known			
THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/780,179		
		Filing Date	February 9, 2001		
		First Named Inventor	Thomas J. QUIGLEY		
		Art Unit	2661		
		Examiner Name	Ian N. Moore		
Sheet	1	of	1	Attorney Docket Number	1875.132000I
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published			T ²
INM	NPL1	Quigley, T.J. <i>et al.</i> , U.S. Patent Appl. No. 09/714,713, filed November 16, 2000, entitled "Data Packet Fragmentation in a Cable Modem System".			
INM	NPL2	Quigley, T.J. <i>et al.</i> , U.S. Patent Appl. No. 09/710,238, filed November 9, 2000, entitled "Pre-Equilization Technique For Upstream Communication Between Cable Modem And Headend".			
INM	NPL3	Quigley, T.J. <i>et al.</i> , U.S. Patent Appl. No. 11/292,098, filed December 2, 2005, entitled "Data Packet Fragmentation in a Cable Modem System".			
INM	NPL4	Declaration of Lisa V. Denney, dated March 22, 2004, (7 pages), with Exhibits 1-4.			
INM	NPL5	Declaration of Lisa V. Denney, dated March 22, 2004, (8 pages), with Exhibits 1-5.			
	NPL6				
	NPL7				
	NPL8				
	NPL9				
	NPL10				

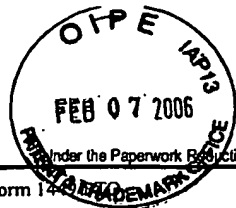
Examiner Signature	/Ian Moore/	Date Considered	06/08/2006
-----------------------	-------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Equivalent of Form PTO/SB/08A (07-05)

Approved for use through 07/31/2006.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 14		Complete if Known	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	09/780,179
		Filing Date	February 9, 2001
		First Named Inventor	Thomas J. QUIGLEY
		Art Unit	2661
		Examiner Name	Ian N. Moore
Sheet 1 of 3	Attorney Docket Number	1875.1320001	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
INM	US1	3,839,678	10-01-1974	Bell	
	US2	5,276,706	01-04-1994	Critchlow	
	US3	5,533,004	07-02-1996	Jasper et al.	
	US4	5,553,064	09-03-1996	Paff et al.	
	US5	5,612,975	03-18-1997	Becker et al.	
	US6	5,703,539	12-30-1997	Gillig et al.	
	US7	5,859,671	01-12-1999	Kim	
	US8	5,903,231	05-11-1999	Emelko	
	US9	6,005,854	12-21-1999	Xu et al.	
	US10	6,028,860	02-22-2000	Laubach et al.	
	US11	6,055,242	04-25-2000	Doshi et al.	
	US12	6,215,792 B1	04-10-2001	Abi-Nassif	
	US13	6,298,098 B1	10-02-2001	Krasner et al.	
	US14	6,353,604 B2	03-05-2002	Grimwood et al.	
	US15	6,459,703 B1	10-01-2002	Grimwood et al.	
	US16	6,529,520 B1	03-04-2003	Lee et al.	
	US17	6,546,017 B1	04-08-2003	Khaunte	
	US18	6,563,829 B1	05-13-2003	Lyles et al.	
	US19	6,614,799 B1	09-02-2003	Gummalla et al.	
	US20	6,647,069 B1	11-11-2003	Segal et al.	

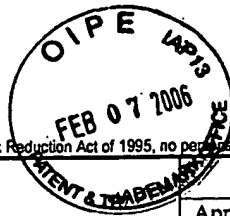
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² Number ³ Kind Code ⁴ (if known)				
INM	FP1	WO 98/47236 A1	10-22-1998	Eng		
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8					
	FP9					

Examiner Signature	/Ian Moore/	Date Considered	06/08/2006
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Equivalent of Form PTO/SB/08A (07-05)

Approved for use through 07/31/2006.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/780,179
				Filing Date	February 9, 2001
				First Named Inventor	Thomas J. QUIGLEY
				Art Unit	2661
				Examiner Name	Ian N. Moore
Sheet	2	of	3	Attorney Docket Number	1875.1320001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
INM ↓	US21	6,647,070 B1	11-11-2003	Shalvi et al.	
	US22	6,650,624 B1	11-18-2003	Quigley et al.	
	US23	6,650,698 B1	11-18-2003	Liau et al.	
	US24	6,704,932 B1	03-09-2004	Matsunaga et al.	
	US25	6,785,252 B1	08-31-2004	Zimmerman et al.	
	US26	6,961,314 B1	11-01-2005	Quigley et al.	
	US27	6,965,616 B1	11-15-2005	Quigley et al.	
	US28				
	US29				
	US30				
	US31				
	US32				
	US33				
	US34				
	US35				
	US36				
	US37				
	US38				
	US39				
	US40				

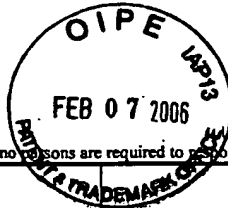
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	FP10				
	FP11				
	FP12				
	FP13				
	FP14				
	FP15				
	FP16				
	FP17				
	FP18				

Examiner Signature	/Ian Moore/	Date Considered	06/08/2006
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0851-0031

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/780,179
		Filing Date	February 9, 2001
		First Named Inventor	Thomas J. QUIGLEY
		Art Unit	2661
		Examiner Name	Ian N. Moore
Sheet 2 of 3		Attorney Docket Number	1875.1320001
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²
INM	NPL1	Erup, L. et al., "Interpolation in Digital Modems - Part II: Implementation and Performance," <i>IEEE Transactions on Communications</i> , Vol. 41, No. 6, pp. 998-1008 (June 1993).	
	NPL2	Franks, L.E., "Evaluation of the Effects of Notch Filters on Digital Data Transmission," <i>IEEE Transactions on Communication Technology</i> , pp. 447-449 (August 1970).	
	NPL3	Gardner, F.M., "Interpolation in Digital Modems - Part I: Fundamentals," <i>IEEE Transactions on Communications</i> , Vol. 41, No. 3, pp. 501-507 (March 1993).	
	NPL4	Office Action, dated August 5, 2004, from U.S. Patent Appl. No. 09/430,821, filed October 29, 1999, 25 pages.	
	NPL5	International Search Report, dated October 9, 2000, from PCT Patent Appl. No. PCT/US99/25675, 8 pages.	
↓	NPL6	Written Opinion, dated November 15, 2000, from PCT Patent Appl. No. PCT/US99/25675, 10 pages.	
↘	NPL7		
	NPL8		
	NPL9		
	NPL10		

Examiner Signature	/Ian Moore/	Date Considered	06/08/2006
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.